

Name: \_\_\_\_\_

### p1029: Box multiplication of linear binomials (v19)

#### Example

Use the box method to multiply  $(6x + 3)$  and  $(2x + 4)$ .

*	$6x$	$3$	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
$4$	$24x$	$12$	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER:  $12x^2 + 30x + 12$

#### Question 1

Use the box method to multiply  $(6x + 3)$  and  $(7x + 4)$ .

*	$6x$	$3$	
$7x$	$42x^2$	$21x$	
$4$	$24x$	$12$	

ANSWER:  $42x^2 + 45x + 12$

### Question 2

Use the box method to multiply  $(4x - 9)$  and  $(-6x + 5)$ .

*	$4x$	$-9$
$-6x$	$-24x^2$	$54x$
$5$	$20x$	$-45$

ANSWER:  $-24x^2 + 74x - 45$

### Question 3

Use the box method to multiply  $(-3x + 7)$  and  $(-5x - 4)$ .

*	$-3x$	$7$
$-5x$	$15x^2$	$-35x$
$-4$	$12x$	$-28$

ANSWER:  $15x^2 - 23x - 28$